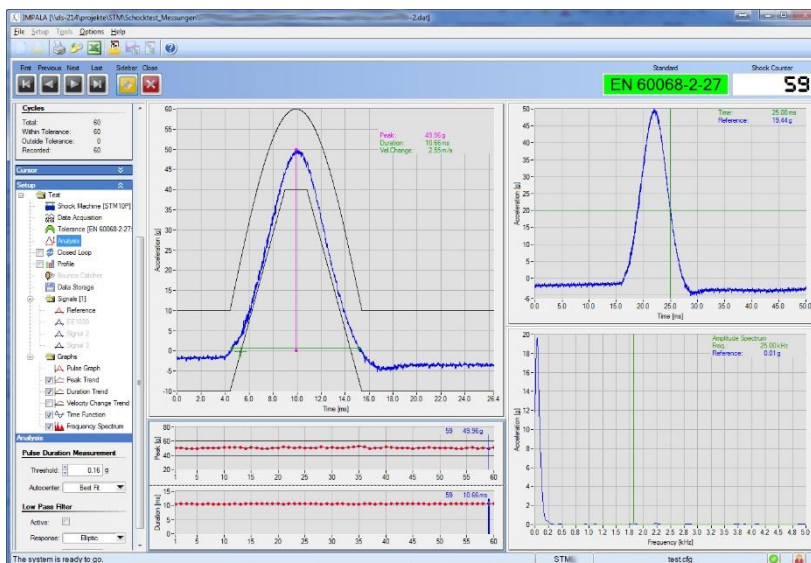


Free Standing – 10kg Payload – High Speed

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 320 x 250mm payload area.
- Shock amplitudes of up to 500g.
- Ideal for production testing.



The STM10 is the smallest of our flat bed shock machines offering cost effective shock testing. Several machines have been delivered to automobile component suppliers in the field of production quality control together with research and development. Test items are mounted on a 320x250mm aluminium table which can be adapted to interface with quick release platforms for minimum setup time on the production line. Table lifting is achieved by a built in pneumatic ram which is then accelerated down allowing the table to free fall. Through utilisation of timer counters coupled to high precision valves controlled by our **IMPALA** software, this machine generates highly repeatable shocks at a rate of up to ~60/minute.



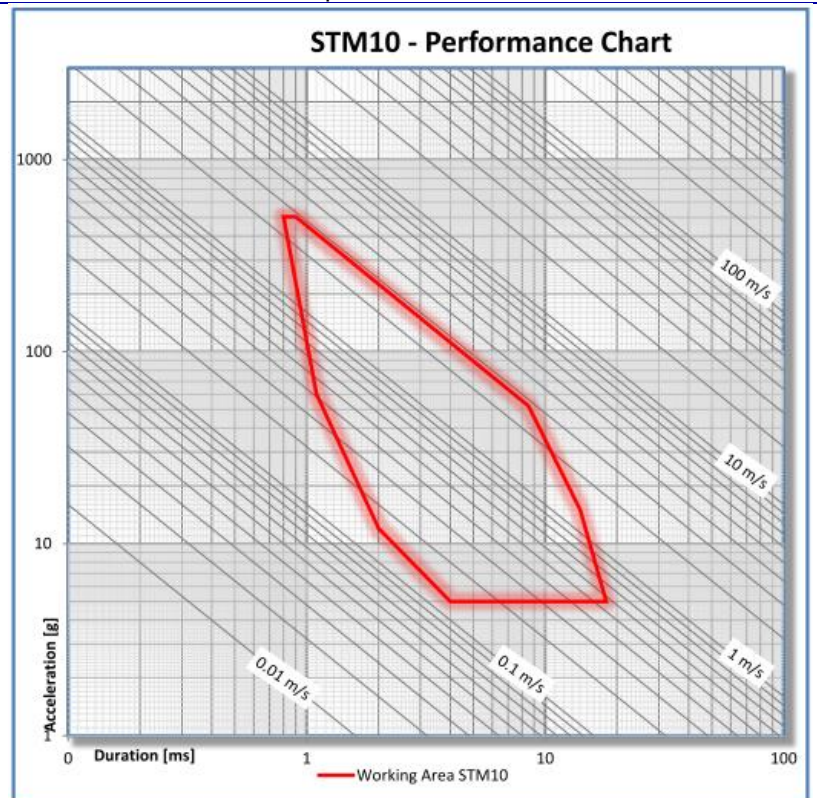
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones can be selected and displayed over the response waveform. Full remote control is available for integration into the production environment.

Technical Specification

PERFORMANCE AND TEST ITEM MOUNTING

Maximum Test Item Weight	10kg
Mounting Surface	320mm x 250mm
Maximum Acceleration	up to 500g
Shock Pulse Width Limits	0.8ms to ~20ms
Maximum Velocity Change	0.13m/s – 2.5m/s
Shock Repetition Rate	up to ~60/minute

Performance Chart



PHYSICAL

Machine Weight	~320kg
Required Floor Area	450mm x 370mm
Outside Dimensions	400mm x 320mm x 620-770mm high

Min. REQUIRED UTILITIES

Air Pressure	4-8 bar (4 bar recommended)
Power	110/240VAC 50/60Hz
Software / HW	>= WIN7-SP1 - Prof. / 2x PCI slots

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